

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

5        1. (Original) A media detection system for a cartridge engaging assembly, comprising:

          a light source mounted within a cartridge receiving chamber defined by the cartridge engaging assembly;

10        a cartridge referencing member comprising an arm portion and a head portion, the arm portion being mounted to the cartridge engaging assembly, the head portion being located within the cartridge receiving chamber at a position adjacent said light source, said cartridge referencing member being deflected by the presence of a data cartridge within the cartridge receiving chamber so that said cartridge referencing member blocks light produced by said light source when no data cartridge is located within the cartridge receiving chamber and so that said cartridge referencing member blocks less light produced by said light source when a data cartridge is located within the cartridge receiving chamber; and

20        a detector assembly coupled to the cartridge receiving chamber for detecting light from said light source.

25        2. (Original) The media detection system of claim 1, wherein the head portion of said cartridge referencing member blocks light produced by said light source.

30        3. (Original) The media detection system of claim 1, wherein said detector assembly detects whether light from the light source is blocked by said cartridge referencing member.

4. (Original) The media detection system of claim 1,

wherein said head portion further comprises a flag portion, said flag portion substantially blocking all light produced by said light source when no data cartridge is present within the cartridge receiving chamber.

5        5. (Original) The media detection system of claim 4,  
wherein said cartridge referencing member is partially deflected  
by a narrow form-factor data cartridge within the cartridge  
receiving chamber so that said flag portion blocks a portion of  
light produced by said light source, and wherein said cartridge  
10 referencing member is fully deflected by a wide form-factor data  
cartridge within the cartridge receiving chamber so that said  
flag portion blocks substantially no light produced by said light  
source.

15        6. (Original) The media detection system of claim 4,  
wherein said light source comprises an upper light source and a  
lower light source and wherein said flag portion comprises a  
lower section and an upper section, the lower section of said  
flag portion being shorter than the upper section of said flag  
portion so that both the upper and lower sections block light  
20 produced by the upper and lower light sources when no data  
cartridge is present within the cartridge receiving chamber.

25        7. (Original) The media detection system of claim 6,  
wherein the upper section of said flag portion blocks light  
produced by the upper light source and wherein the lower section  
of said flag portion blocks substantially no light produced by  
the lower light source when the narrow form-factor data cartridge  
is positioned within the cartridge receiving chamber.

30        8. (Original) The media detection system of claim 6,  
wherein the upper section of said flag portion and the lower  
section of said flag portion block substantially no light  
produced by the upper and lower light sources when the wide form-

factor data cartridge is positioned within the cartridge receiving chamber.

9. (Original) The media detection system of claim 1, wherein said light source comprises a light emitting diode.

5 10. (Original) The media detection system of claim 1, wherein said detector assembly comprises a charge-coupled device.

Claims 11-20 (Canceled).